

## ABSTRACT OF THE DISCLOSURE

The instant invention relates to a metallic stud frame construction panel definable in terms of an x,y, z coordinate system. Each stud of the panel includes a z-axis elongate substantially rectangular integral steel web within a yz plane and further includes (i) a first series of xz plane tabs projecting from a first z-axis edge of the web in an x-axis direction, the tabs interdigitating with void spaces, and (ii) a second series of xz plane tabs projecting from an opposite z-axis edge of the web in a like x-axis direction, each tab of the second series staggered relative to the first series of tabs. The panel structure also includes first and second xy plane concrete slabs cast about the first and second series of tabs. The slabs are integrally molded about their y- and z- axis peripheries, after a volume of the panel existing between the series of tabs has been filled with an acoustic and/or thermal insulator. The concrete slabs are reinforced thru the use of re-bars.